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DEPARTMENT OF THE ARMY

ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

PICATINNY ARSENAL, NEW JERSEY 07806-5000

30 JUN 1993



REPLY TO  
ATTENTION OF

SMCAR-AEP (1mm)

MEMORANDUM FOR Commander, Defense Technical Information Center,  
Building 5, Cameron Station, Alexandria VA  
22304-6145

SUBJECT: Release of Performance Oriented Compliance Report

1. The enclosed report (DODPOPHMTR/AYD 93-011) entitled:  
"Performance Oriented Packaging Testing of Wirebound Box for  
Pressure Cartridge Packed in a M2A1 Metal Container" is hereby  
submitted to the Defense Technical Information Center for formal  
release. Please send notification of formal release to:

U.S. Army Armament Research, Development and  
Engineering Center, Picatinny Arsenal, NJ 07806-5000

2. The point of contact for this report is Mr. Roy Garner,  
(201) 724-2220 or DSN 880-2220.

Encl  
as

  
ROBERT J. KUPER  
Chief, Packaging Division

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**JUL 22 1993**  
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## REPORT DOCUMENTATION PAGE

Form Approved  
OMB No 0704-0188  
Exp Date Jun 30, 1986

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11. TITLE (Include Security Classification) Performance Oriented Packaging (POP) Test of Wirebound Box, Part Number 7553347 for Pressure Cartridge packed in a M2A1 Metal Container.			
12. PERSONAL AUTHOR(S) Roy Garner			
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		2. Ammunition Packaging	
		3. M2A1 Container	
		4. Wirebound Box	
		5. Packaging	
19. ABSTRACT (Continue on reverse if necessary and identify by block number) This report covers the POP testing of Wirebound Box, P/N 7553347, by analogy, IAW section 178.601 (page 309) of CFR Title 49, dated 1 Oct 92. The exterior wirebound box contains two M2A1 metal inner containers (Dwg. 12902743). Each M2A1 metal container contains 7 paperboard boxes (Dwg. 12902745 - 1) with 5 pressure cartridges each per box.  POP tests of identical configuration was conducted using containers containing additional weights to insure that tested weight is higher than heaviest pack to insure safety in shipping (Reference DODPOPHMTR/AYD 92-005, test report for Performance Oriented Packaging, two M2A1 metal inner containers packed in a wirebound box).			
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22a. NAME OF RESPONSIBLE INDIVIDUAL Roy Garner		22b. TELEPHONE (Include Area Code) (201) 724-2220	22c. OFFICE SYMBOL SMCAR-AEP

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1. DATA SHEET

Container:

Type: Box, Wirebound  
 Part No.: 7553347  
 UN Code: 4C1  
 Spec No.: PPP-B-585  
 Material: Wood  
 Capacity: 19.1 liters  
 Packing and Marking Drawing: 12902744  
 Dimensions:

Inside: 31.52 cm x 30.96 cm x 19.53 cm  
 (12 3/16 in x 12 1/16 in x 7 9/16 + 1/8 in)

Outside: 36.67 cm x 31.83 cm x 20.64 cm  
 (14 7/16 in x 12 17/32 in x 8 1/8 in)

Weight: 2.5 kg (5.5 lbs)

Container (Inner):

Type: Box  
 Model No.: M2A1  
 Spec No.: Mil-B-3060  
 Material: Metal  
 Capacity: 6.8 liters  
 Packing and Marking Drawing: 12902743  
 Dimensions:

Inside: 27.94 cm x 14.13 cm x 17.22 cm  
 (11 in x 5 9/16 in x 6 25/32 in)

Outside: 30.56 cm x 15.48 cm x 19.05 cm  
 (12 1/32 in x 6 3/32 in x 7 1/2 in)

Weight: 2.5 kg (5.5 lbs)

Closure ( Method/Type): Hinged lid

Product:

Name: Pressure Cartridge Assembly  
 Part Number: 9366511  
 Proper Shipping Name: Cartridges, Power Device  
 Identification Number: 0275  
 Physical State: Solid  
 Quantity per Container: 70

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## 2. CONCLUSION:

This packaging configuration was previously POP tested as reference in DODPOPHMTR/AYD 92-005, test report for Performance Oriented Packaging; two M2A1 Metal inner containers packed in a wirebound box. In addition, the length, height, and width of both the wirebound box, and the M2A1 Metal containers are identical. The weights tested as stated in this report range from 15 kg to 47 kg. The total weight of the wirebound box loaded for the pressure cartridges is 21 kg. Therefore, since 21 kg is within the range for items previously tested, by analogy, IAW section 178.601 (page 309) of CFR title 49, this package is considered safe for domestic and international shipment.